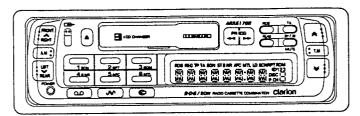
# clarion Service Manual

Published by Service Dept.



FM/MW/LW RADIO CASSETTE COMBINATION WITH RDS-EON AND CD/MD CHANGER CONTROL

Model ARX6170R

(PE-9916E)

#### **■**SPECIFICATIONS

RADIO SECTION

Tuning system

:PLL synthesizer

Receiving frequencies

:FM 87.5MHz

MW 531 to 1,602kHz LW 153 to 279 kHz

#### TAPE DECK SECTION

Playback system : Auto reversing, 4-track, 2-channel

stereo cassette tape playback

Monaural also possible

#### **GENERAL**

Power supply voltage

:DC 14V(10.8 to 15.6V allowable)

Negative ground

Power consumption

:Less than 10A

Speaker impedance

:4  $\Omega$  (4 to 8  $\Omega$  allowable)

Auto antenna rated current

:0.5A or less

Dimensions

:Wldth 178mm

Height 50mm

Depth 152mm

Weight

:1.3kg

- \*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- \*"DOLBY" and the double-D symbol DO are trademarks of Dolby Laboratories Licensing Corporation.
- \*For improvement purposes, specifications and design are subject to change without prior notice.

## **■**COMPONENTS

● PE-9916E-B		
Main unit	_	1
Mounting bracket	300-9035-03	1
Outer escutcheon	370-5496-0L	1
Extension lead	854-3848-00	1
Parts bag	921-9184-00	1
Hook plate	330-8216-0L	2
Lead holder	335-0833-01	1
Spacer	345-3653-01	1

716-0726-01

#### **■**FEATURES

Screw

- Auto reverse with auto azimuth adjustment
- Dolby B noise reduction
- ●EON-RDS receiver with PI,PS,AF,TP,TA and REG
- High power 4 x 30W max.
- Electronic controls(Volume/Bass/Treble/Balance/
- Triggered audio mute for cellular telephone
- Detachable control panel

#### **MADJUSTMENT:**

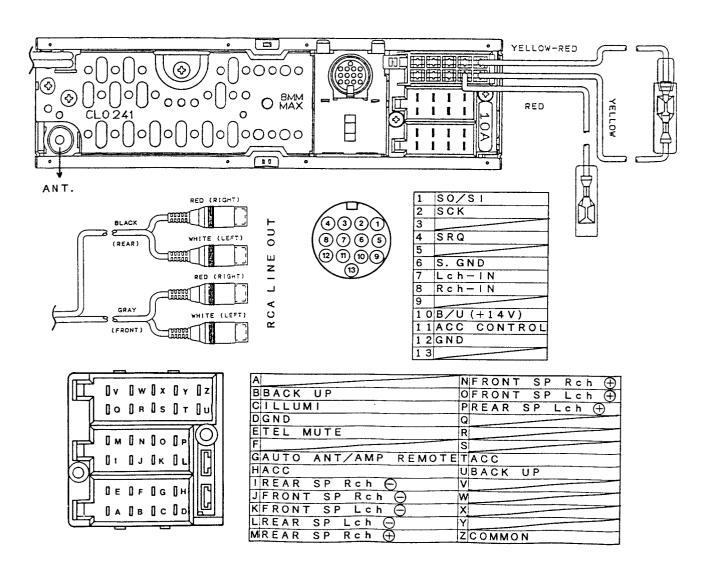
#### **OFM SECTION**

Item	Procedure
Stop	1.Input the 98.1MHz/25dB(30%,400Hz)signal.
sensitivity	2.Adjust VR441 so that the voltage of TP1 is in the range oV to 5.0V.
SASC	1.Input the 98.1MHz/65dB(30%,7kHz)signal.
	2.Adjust the output level of the main volume to 0dBm(0.775V).
	2.Adjust the outputs evenly to -3dB by VR439 when the SG is set to 30dB.
Separation	1.Input the 98.1kHz,connect the output of a stereo modulator to the external
'	modulation terminal, and input a 65dB SG signal.
	2.Set the stereo modulator to the L or R ch and adjust VR440 so that the maximum
	separation is obtained.

#### **DOLBY SECTION**

<b>Q</b> D O L D . O L D .	
Item	Procedure
Dolby level	1.Playback a Dolby level test tape(400Hz,200nWb/m),connect the milli-volt
	meter to TP2(L),TP3(R).
	2.Adjust VR349(L), VR350(R) to be obtain an output of 300mV+)1dB.(Dolby switch:OFF)

#### **REAR VIEW AND CONNECTORS:**



# **■ EXPLANATION OF IC's:**

System controller ■ µPD78044AGF-084-3B9 052-3321-00

Outward From 80-pin plastic QFP

Terminal discription						
Pin No.	Symbol	νо	Function			
1	E VOL CE	0	Chip enable signal output of electronic volume IC (CXA1946)			
2	E VOL CLK	0	Clock output of electronic volume IC (CXA1946)			
3	DOLBY	0	Repeats operation between H and L in tape mode when BNR key is pressed.			
4	APC	0	H output H during FF/REW when tape mode APC is ON.			
5	MTL	0	Repeats operation between H and L in tape mode when MTL key is pressed.			
6	ACC CONT	0	ACC CONT signal output of C-BUS.			
7	NC	-	Not in use.			
8	VDD	_	+5V power supply voltage terminal			
9	C-BUS SCK	0	Clock output of C-BUS			
10	C-BUS SO	0	Output data of C-BUS			
11	C-BUS SI	ı	Input data of C-BUS			
12	C-BUS SRQ	I	SRQ of C-BUS			
13	PLL CE	0	Chip enable signal output of PLL IC (LC 72146M)			
14	PLLCLK	0	Clock output of PLL IC (LC 72146M)			
15	PLL DO	0	Output data of PLL IC (LC 72146M)			
16	PLL DI	I	Input data of PLL IC (LC 72146M)			
17	RESET	· ·	RESET signal input			
18	LPF CONT.	0	Time constant switching terminal of LPF			
19	NC NC	<u> </u>	Not in use.			
20	AVSS		Reference GND terminal of A/D converter.			
20	AM SD	I	Station detection signal input during AM band auto tuning			
		_	(SEEK, PS, AS) in radio mode.  ST indicator lights in low level while receiving FM band station			
22	ST IND	I	in radio mode.			
23	FM SD	I	Station detection signal input during FM band auto tuning (SEEK, PS, AS) and tracking with RDS function in radio mode.			
24	NC	-	Not in use.			
25	S METER	I	Field strength signal of FM band station in radio mode. (used as A/D port)			
26 27	NC	-	Not in use.			
28	REM CONT	ī	Remote control data input with single wire voltage input (used as A/D port)			
29	AVDD	-	Analog power supply terminal of A/D converter			
30	AVref	†-	Reference voltage input terminal of A/D converter			
31	XT 1	1-	Not in use.			
32	XT 2	ļ				
33	VSS	<del>  -</del>	GND terminal.			
34 35	X 1 X 2	-	Main system clock oscillator terminal connection terminal			
36	FWD/REV	1	Cassette tape running direction.  (Mute output with change of port in tape mode.)			
37	BEEP	0	Pulse output of beep sound.			
38	IF MUTE	0	Outputs during automatic tracking with RDS function.			
39	RDS DATA	I	RDS data input from RDS decoder IC (SAA 8579).			
40	LCD KEY REQ	I	Key request signal input from LCD driver (μ PD 16431).			
41	ICD CLK	0	Clock output of LCD driver (µ PD 16431).			
42	LCD DATA	1/0	Input/output data of LCD driver (µ PD 16431).			
43	LCD STB	0	Strobe signal output of LCD driver (µ PD 16431).			
44	POWER KEY	1	Key input of power key			
45	RDS CLK	1	Synchronous clock from RDS decoder IC (SAA 6579) .			
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Pin No.	Symbol	νо	Function
			When power key is off and microcomputer is in HALT, release
46	X'tal Start I		HALT according to change ACC DET status or detection of
			BAND key ON.  Detects connection of power in backup line.
47	B/U DET	1	H: Disconnected.
47	BODEI	'	L : Connected.
48	IC	-	Connect to GND.
49	VOL A	ı	1 (1)
50	VOL B	'	Input of turning volume control (phase comparison)
51	NC	-	Not in use.
52	VDD	-	+5V power supply voltage terminal
53	LCD OE	0	Output enable signal output of LCD driver (µ PD 16431)
54	BAND KEY	I	Key input terminal of band key in radio mode.
55	ACC DET	I	Detects power connection status of accessory line.
56	W ILL1	0	Control output signal of W illumination.
57	W 11.1.2	0	Control output signal of Williams and
58	SLAVE ON	I	Slave status input of AUX
59	MASTER ON	0	Master status output of AUX
60	NC	-	Not in use.
61	PACK SW	I	Tape presence detection signal input in tape mechanism (TOM II M).
62	FF/REW	I	FF/REW status detection signal input of tape mechanism (TOM II M).
63	PHONE	I	Interruption signal input of car phone
64	NC	-	Not in use.
65	КІЗ		
1	1	I	Input of initially set diode matrix
67	KI 1	+	
68 \	NC	_	Not in use.
72	1	-	
73	KO 4	1	
S	5	0	Input of initially set diode matrix
76	KO 1	ļ	
77	MOTOR	0	Motor control signal output of tape mechanism (TOM II M).
78	REMOTE	0	Status control signal output of POWER IC (HA1 3150A).
79	MUTE.	0	Mute control signal output.
80	E VOL DO	0	Output data of electronic volume IC (CXA1946)

Key matrix table (initially set diode matrix)

KEY OUT	KO I	KO 2	KO 3	K04
KEY IN	(76 pin)	(77 pin)	(78 pin)	(79 pin)
KI 1 (67 pin)	D-SW0	D-SW1	D-SW2	D-SW3
KI 2 (66 pin)	With/without LOUD-KEY	FF/REW display switching		
K13 (65 pin)				

Diode SW In the table belo

SW name	Function							
D SW0	Auto store	initially s	et terminal for commercial item/OEM					
D SW1	D SW0	D SW1	Specification					
	0	0	Commercial mode					
	0	1	Auto store initial setting: Both FM 1 and 2 bads					
	I	0	OEM mode					
	I	I	Auto store initial setting: FM2 only					
D SW2	APC, DOLBY, MTL function selection terminal							
D SW3	D SW2	D SW3	Function					
	0	0	Without APC, Without DOLBY, Without MT					
	0	1	Without APC, Without DOLBY, With MTL					
	1	0	Without APC, With DOLBY, With MTL					
	1	I	With APC, With DOLBY, With MTL					
LOUD KEY	Loud key	selection t	ermina)					
		O: With	out LOUD KEY					
_	I: With LOUD KEY							
FF/REW	Display switching terminal during FF/REW							
	1	0: >	Display of running direction					
		1 : FF/REW flashing						

## **■ PARTS LIST**

**©MAIN PWB** 

Fig. Page   PART No.   DesSCRIPTION   Ref. No.			1 bMR					5500051571311			DART	DECOCONOTION
100   173-104-11   0.1	RE	F No.	PART No.	DESSCRIPTION	RE	= No.	PART No.	DESSCRIPTION	RE	- No.		DESSCRIPTION
Col.   19-10-19-11   D. Lup				0.1uE	С	412	183-4763-11	6.3V47uF	IC	302	051-5004-00	CXA1946Q
1 00 193 16393   SolVule	1	i	1	The state of the s	!				•	-	l i	1
0 10 18 193-195-28   5907UF         0 416   778-797-200   728 CH         0 10 181-195-28   15917UF         0 417   778-312-20   3005CF         0 10 181-195-28   15917UF         0 50 50 50-505-20   3005F         0 60 50 5005F         <				l l				· · · · · · · · · · · · · · · · · · ·	1			
10   195	C	105	183-1063-31	16V10uF				l '	1.		i i	1
1	C	108	183-1053-61	50V1uF					1			
C 100 18-1072-21   1001/00UpF	c	109	183-1063-31	16V10uF	C	416	178-1042-05	0.1uF	1C	502	1	
2			4	į.		417	178-3312-05	330pF	IC	503	051-0301-01	JPC1228H
C         20.0         18-4-375-12 (6.347 σuple         C         420         178-1032-05 (0.05 uple)         C         420         178-1032-05 (0.05 uple)         C         420         178-1032-05 (0.05 uple)         C         422         183-1053-05 (0.05 uple)         C         422         183-1053-05 (0.05 uple)         L         101         0.0 204-05 (0.05 uple)         C         422         183-1053-05 (0.05 uple)         L         440         0.0 204-05 (0.05 uple)         C         422         183-1053-05 (0.05 uple)         L         440         0.0 204-05 (0.05 uple)         C         422         178-1053-05 (0.05 uple)         L         440         0.0 10-0233-05 (0.05 uple)         C         428         178-1053-05 (0.05 uple)         L         440         0.0 10-0233-05 (0.05 uple)         C         428         178-1053-05 (0.05 uple)         L         440         0.0 10-0233-05 (0.05 uple)         D         430         178-1053-05 (0.05 uple)         L         440         0.0 10-0233-05 (0.05 uple)         D         430         178-1053-05 (0.05 uple)         D         178-1053-05				ì				1 *	lic	504	051-0160-51	SN74LS07N
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19-102-05-05   1000pf   C   422   139-105-05   C   179-105-05   C   179-									1		!	
19-3925-05   19-	С	301	178-6832-05	0.068uF	C	421	178-2222-05	2200pF	4			220uH
C 304   78-3022-06   3000pF   C 423   183-1063-31   187-100F   L 401   01-2003-34   229H   C 425   778-8622-06   5000pF   L 402   01-2003-34   229H   C 425   778-8622-06   5000pF   L 404   01-2023-34   229H   C 425   778-8622-06   5000pF   L 406   L	С	302	178-1022-05	1000pF	C	422	183-1063-31	16V10uF	L	102	009-0666-0L	
0 365   778-8520-05   0.056µF         C 424   778-8522-05   5000pF         L 400   0.10-215-05   0.22µH           0 301   778-8522-05   0.056µF         C 427   778-1012-05   100pF cH         L 406   0.10-2230-35   2.22µH           0 301   778-8522-05   5000pF         C 427   778-1012-05   100pF cH         L 406   0.10-2230-35   2.22µH           0 311   778-8522-05   5000pF         C 428   772-5231-10   0.10 sep cH         D 101   100-2240-25   2.52µH           0 311   778-8522-05   5000pF         C 428   772-5231-10   0.058µC         D 101   100-2240-25   2.52µC           0 311   778-8522-05   5000pF         C 428   772-5231-10   0.058µC         D 101   100-2440   2.52µC           0 311   772-1041-10   0.10   C 433   100pF cH         D 101   100-2440   2.52µC         D 101   100-2440   2.52µC           0 311   772-1041-10   0.10   C 433   100pF cH         D 101   100-2440   2.52µC         D 101   100-2440   2.52µC           0 316   772-1041-10   0.10   C 433   100pF cH         D 101   100-2440   2.52µC         D 101   100-2440   2.52µC           0 316   772-1041-10   0.10   C 433   100pF cH         D 101   100-2440   2.52µC         D 101   100-2440   2.52µC           0 316   772-1041-10   0.10   C 433   100pF cH         D 101   100-2440   2.52µC         D 101   100-2440   2.52µC           0 316   772-1041-10   0.10   C 433   100pF cH         D 101   100-2440   2.52µC         D 100-2440   2.52µC           0 316   772-1041-10   0.10   C 434   2.52µC         D 10			l i		C	423	183-1063-31	16V10uF	L	401	010-2003-04	
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	C	308	178-1022-05	1000pF	C	427	,	l ' '	L			
0 311 17-8-822-015 [9000pF]         C 429   17-8-823-015   10.082uF         C 102   102-277-6.00   250-25712           0 311 17-8-922-015 [9000pF]         C 432   17-8-922-015   17-6-19-10-10   15pf CH         C 103   17-9-922-015   10.092pF         C 103   17-9-922-015   10.092pF         C 104   10.01-10-10-10-10-10-10-10-10-10-10-10-10-1	lc	310	178-5622-05	5600pF	C	428	172-1531-11	0.015uF	Q	101	101-0624-0L	2SB624
1986   1986					C	429	172-8231-11	0.082uF	Q	102	102-2712-00	2SC2712
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311   172-101-11   1.1			:	1	1		1	)	1		1	
0 320 172-1041-11 0.14F         C 503 183-1073-12 6.39/100F         O 112 101-0772-01 283772           0 321 172-1041-11 0.14F         C 504 178-272-20-5 0.27F         O 31 171-072-02 2852712           0 322 178-1042-05 0.14F         C 504 178-272-20-5 0.27F         O 114 125-0002-01 RN2001           0 324 183-243-61 50V0 22UF         C 506 183-1058-61 50V1UF         O 401 125-2003-03 RN1403           0 324 183-243-61 50V0 22UF         C 507 178-2732-05 0.27UF         O 402 103-1305-00 28501306           0 328 183-165-31 18V1-0UF         C 508 183-1058-61 50V1UF         O 404 103-1305-00 28501306           0 328 183-258-25 50V2-2UF         C 501 183-1058-61 50V1UF         O 405 102-271-25 12 SC2712GL           0 329 183-258-25 50V2-2UF         C 510 183-1058-61 50V1UF         O 406 102-271-25 12 SC2712GL           0 320 183-258-25 50V2-2UF         C 512 178-1032-05 0.01UF         O 407 102-500-03 RN1403           0 321 183-1073-21 10V100UF         C 514 183-335-61 50V3.3UF         O 409 100-1162-50 28544           0 321 183-1073-21 10V100UF         C 514 183-335-61 50V3.3UF         O 411 101-1062-50 28501306           0 321 183-1053-31 16V10UF         C 516 183-258-62 50V2.2UF         O 511 102-271-20 28501306           0 321 183-1053-31 16V10UF         C 516 183-258-258-62 50V2.2UF         O 511 102-271-20 28502712           0 323 183-1053-31 16V10UF         C 516 183-258-258-62 50V2.2UF         O 511 102-27				1	1 '			i '	1			
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C 326   183-163-31   16V10uF   C 509   183-478-31   15V47uF   C 345   102-2712-51   25C2712-0.L   C 327   183-475-35   55V4.7µF   C 510   183-103-61   50V1uF   C 406   102-2712-51   25C2712-0.L   C 328   183-225-62   50V2.2µF   C 511   178-1032-05   0.01uF   C 408   125-2004-03   RN1403   C 409   183-373-11   6.3V309UF   C 513   178-1032-05   0.01uF   C 408   125-2004-03   RN1403   C 409   100-162-60   2581-162-V.   C 513   178-1032-05   0.01uF   C 408   125-2004-03   RN1403   C 409   100-162-60   2581-162-V.   C 513   183-313-61   50V3-0.F   C 410   101-062-60   2581-162-V.   C 513   183-313-61   50V3-0.F   C 410   101-062-60   2581-162-V.   C 513   183-313-61   50V3-0.F   C 410   101-062-60   2581-162-V.   C 513   183-313-61   50V3-0.F   C 514   183-255-62   50V2.2µF   C 515   183-255		324									l !	1
C 327   83-4753-51   35V4.7µF   C 510   183-1033-61   50V1µF   O 406   102-2712-51   25C27120.L   C 328   83-2223-62   50V0.2µF   C 511   183-1033-61   50V1µF   O 408   125-2004-03   RN1403   C 329   83-2233-62   50V0.2µF   C 513   178-1032-05   0.01µF   O 408   125-2004-03   RN1403   C 330   183-6843-61   50V0.6µF   C 514   183-303-61   50V1µF   O 409   100-1622-0   25R2162-0   C 331   183-1073-21   10V10µF   C 514   183-335-61   50V1µF   O 411   103-306-00   25D1306   C 332   183-3373-11   63-331   16V10µF   C 516   183-2255-62   50V2.2µF   O 411   103-306-00   25D1306   C 334   183-1063-31   16V10µF   C 517   183-1033-61   50V1µF   O 502   102-2712-00   25C2712   C 335   183-1063-31   16V10µF   C 518   183-1033-61   50V1µF   O 502   102-2712-00   25C2712   C 336   183-1083-31   16V10µF   C 518   183-1033-61   50V1µF   O 503   100-22712-00   25C2712   C 337   183-1063-31   16V10µF   C 520   183-2258-35   16V22µF   O 504   101-0822-00   258822   C 336   183-1083-31   16V10µF   C 500   183-4783-51   16V22µF   O 504   101-0822-00   258822   C 337   183-1063-31   16V10µF   C 600   183-4783-51   16V22µF   O 504   101-0822-00   258822   C 338   183-1063-31   16V10µF   C 600   183-4783-51   16V22µF   O 504   101-0822-00   258822   C 336   183-1063-31   16V10µF   C 600   183-4783-51   16V22µF   O 504   101-0822-00   258822   C 337   183-1063-31   16V10µF   D 101   101-0356-00   15S194   R 102   117-2721-10   1010   100	C	325	183-6843-61	50V0.68uF	C	508	183-1073-12	6.3V100uF	1 '	404	1 3	
C 327   183-473-5-51   3544-7µF   C 510   183-1035-61   50V1µF   C 328   183-2235-62   50V2 2µF   C 511   178-1032-05   0.01µF   C 329   183-2235-62   50V2 2µF   C 512   178-1032-05   0.01µF   C 331   183-1073-21   10V100µF   C 514   183-333-61   50V3 3µF   C 331   183-1073-21   10V100µF   C 515   172-4731-11   0.0470µF   C 331   183-1053-31   16V10µF   C 516   183-2255-62   50V2 2µF   C 533   183-1063-31   16V10µF   C 516   183-2255-62   50V2 2µF   C 533   183-1063-31   16V10µF   C 517   183-1053-61   50V1µF   C 536   183-2255-62   50V2 2µF   C 538   183-1063-31   16V10µF   C 518   183-2255-62   50V2 2µF   C 533   183-1063-31   16V10µF   C 518   183-2255-62   50V2 2µF   C 533   183-1063-31   16V10µF   C 520   183-2265-31   50V1µF   C 530   183-1063-31   16V10µF   C 520   183-2265-31   50V1µF   C 530   183-1063-31   16V10µF   C 520   183-2265-31   50V1µF   C 530   183-1063-31   16V10µF   C 601   183-2265-31   50V1µF   C 530   183-1063-31   16V10µF   C 601   183-2265-31   50V1µF   C 530   183-1063-31   16V10µF   C 601   183-4763-11   6.3V47µF   C 550   183-2265-31   6.0V1µF   C 601   183-4763-11   6.3V47µF   C 601   183-4763-11   6.3V47µF   C 601   183-1063-21   10V10µF   D 101   001-0356-00   185119   R 102   117-2721-10   1170W 27kbh   C 344   183-1066-21   10V10µF   P 0 103   001-0330-00   185119   R 104   117-2231-10   1170W 27kbh   C 346   183-1066-21   10V10µF   P 0 105   001-0330-00   185119   R 105   117-2321-10   1170W 27kbh   C 346   183-1066-21   10V10µF   P 0 105   001-0350-00   185119   R 105   117-2321-10   1170W 17kbh   C 346   183-1066-21   10V10µF   P 0 105   001-0350-00   185119   R 105   117-2321-10   1170W 17kbh   C 346   183-1066-21   10V10µF   P 0 105   001-0350-00   185119   R 105   117-2321-10   1170W 17kbh   C 346   183-1066-21   10V10µF   P 0 105   001-0350-00   185119   R 105   117-2321-10   1170W 17kbh   C 346   183-1066-21   10V10µF   P 0 105   001-0350-00   185119   R 105   117-2321-10   1170W 17kbh   C 346   183-1066-21   10V10µF   P 0 105   001-0350-00   185119   R 105   117-2321	lc	326	183-1063-31	16V10uF	lc	509	183-4763-31	16V47uF	Q	405	102-2712-51	2SC2712G.L
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C 331   183-1073-21   10V100uF   C 514   183-363-61   50V3.3uF   C 410   101-0624-0L   25B8c4   C 332   184-3373-11   6.3V330uF   C 515   172-473-11   0.047uF   C 511   103-305-61   50V1uF   C 513   183-1063-31   16V10uF   C 517   183-1053-61   50V1uF   C 501   102-2712-00   25C2712   C 333   183-1063-31   16V10uF   C 518   183-1053-61   50V1uF   C 503   183-1063-31   16V10uF   C 519   183-4753-51   50V1uF   C 503   183-1063-31   16V10uF   C 519   183-4753-51   35V4.7uF   C 500   102-2712-00   25C2712   C 333   183-1063-31   16V10uF   C 601   173-1042-05   0.1uF   R 101   171-1031-10   170W   100W							i	1	1		1 1	
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C 333 183-1063-31 16V10UF		332	184-3373-11	6.3V330uF	lc	515	172-4731-11	0.047uF	Q	411	103-1306-00	2SD1306
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C 344 183-1066-21 10V10UF NP D 104 001-0330-00 1SS119 R 105 117-5821-10 1/10W 5.6kchm D 105 001-0330-00 1SS119 R 106 117-1031-10 1/10W 10kchn D 107 001-0516-00 MA111 R 107 117-0321-10 1/10W 10kchn D 107 001-0516-00 MA111 R 107 117-0321-10 1/10W 10kchn D 108 001-0356-00 1SS184 R 108 111-5611-91 1/4WS 560chm D 107 001-0516-00 MA111 R 107 117-6821-10 1/10W 10kchn D 108 001-0356-00 1SS184 R 108 111-5611-91 1/4WS 560chm D 107 001-0516-00 MA111 R 107 117-6821-10 1/10W 10kchn D 108 001-0356-00 1SS184 R 108 111-5611-91 1/10W 10kchn D 108 001-0356-00 1SS184 R 108 111-5611-91 1/10W 10kchn D 108 001-0356-00 1SS184 R 108 111-5611-91 1/10W 10kchn D 108 001-0356-00 1SS184 R 108 111-5611-91 1/10W 10kchn D 108 001-0356-00 1SS184 R 108 111-5611-91 1/10W 10kchn D 108 001-0356-00 1SS184 R 108 111-5611-91 1/10W 10kchn D 108 001-0356-00 1SS184 R 108 111-5611-91 1/10W 10kchn D 108 001-0357-37 MA4068L R 113 111-2221-91 1/4WS 2.kclm D 114 001-0357-37 MA4068L R 113 111-2221-91 1/4WS 2.kclm D 117 001-0503-36 HZS7 A1L R 114 117-4731-10 1/10W 47kchn D 118 001-0377-45 MA4082H R 115 111-3901-91 1/4WS 30chm D 108 001-0377-44 MA4082M R 118 111-2211-91 1/4WS 30chm D 108 001-0377-44 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-44 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-44 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-44 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-45 MA4061 R 119 117-6821-10 1/10W 2.kchn D 108 001-0377-45 MA4061 R 119 117-6821-10 1/10W 2.kchn D 108 001-0377-45 MA4061 R 119 117-6821-10 1/10W 3.kchn D 108 001-0377-45 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-45 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-45 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-45 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-45 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-45 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-45 MA4082M R 118 111-221-91 1/4WS 20chm D 108 001-0377-45 MA4082M R 118 111-2211-91 1/4WS 20chm D 108 001-0377-45 MA4082M R 118 111-2211-91 1/4WS 20chm D	C				D	103	001-0330-00	1\$\$119	IR	104	117-2231-10	1/10W 22koh n
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C 357 183-4753-51 35V4.7uF			ŧ		D	114	001-0377-37	MA4068L	R	113	111-2221-91	1/4WS 2.2kolim
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C 359 183-1553-62 50V1.5uF	C							1			• 1	
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C 361 042-0447-00 16V2200uF			1	1	D	204	001-0516-00	MA111	R	119	117-6821-10	1/10W 6.8kohn
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C 369 178-2242-05 0.22uF		368	178-2242-05	0.22uF	D	210	001-0659-00	SLP-181B-51	R	123	117-4731-10	1/10W 47koh n
C 370 178-3322-05 3300pF					D	211	001-0516-00	MA111	R	124	117-2221-10	1/10W 2.2kohn
C 371 178-2242-05 0.22uF				1	D		i		B		1 1	
C 372 178-2242-05 0.22uF				1 '	1-		1	1	1		1 1	**
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C 402 178-1042-05 0.1uF	C	401	178-1022-05	1000pF	ΙD	403	001-0377-46	MA4091L	R			
C 403 178-1032-05 0.01uF	C	402	178-1042-05	0.1uF	D	404	001-0516-00	MA111	R	131	111-2221-91	1/4WS 2.2kolim
C 404 183-4763-31 16V47uF D 502 001-0516-00 MA111 R 206 117-1031-10 1/10W 10koh.a C 407 183-3343-62 50V0.33uF D 503 001-0516-00 MA111 R 207 117-1031-10 1/10W 10koh.a C 408 178-1032-05 0.01uF D 504 001-0516-00 MA111 R 208 111-4711-91 1/4WS 470orn C 409 183-4763-31 16V47uF IC 203 051-0869-00 MB3771P(-G) R 209 117-1031-10 1/10W 10koh.a			l .	1	lo		I .	1	R			
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		409	1	l l	IC	203			R	209	117-1031-10	1/10W 10kohin
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-	F No.	PART No.					1/10W 6.8kohm	R	503		1/10W 82ohm
R			1/10W 10kohm	R	325		1/10W 2.20hm	R	504		1/10W 120kohm
R			1/10W 47kohm	R	326			R	505		1/10W 4.7kohm
R			1/10W 100kohm	R	327	1	1/10W 2.20hm	B	506		1/10W 4.7kohm
R			1/4WS 10kohm	R	328		1/10W 2.20hm	R	507		1/10W 120kohm
R			1/4WS 3.3kohm	R	329	1	1/10W 2.20hm	R	508		1/10W 82ohm
R			1/10W 100kohm	R		'	1/10W 470ohm	R			1/4WS 10kohm
R			1/10W 100kolim	R	333		1/10W 10kohm	B	510		1/4WS 10kohm
R			1/10W 100kohm	R	334 335	i e	1/10W 6.8kohm	R			1/10W 100kohm
R	220		1/10W 10kohm	R		i	1/10W 2.2ohm 1/10W 2.2ohm	R		-	1/10W 100kohm
R			1/10W 10kohm	1	336		1	B			1/10W 3.3kohm
R			1/10W 100kohm	R		1	1/10W 2.20hm	R			1/10W 3.3kohm
R	223		1/10W 47kohm	R			1/10W 2.20hm	R			1/10W 3.3kohm
R			1/10W 120kohm	R			1/10W 470ohm	R			1/10W 1kohm
R			1/4WS 220kohm	R	352		1/4WS 560ohm	R	518		1/4WS 10kohm
R			1/10W 4.7kohm	R	401	l .	1/10W 2.2kohm	R		ì	1/10W 1kohm
R			1/10W 100kohm	R		1	1/10W 68kohm	R	520		1/10W 10kohm
R			1/10W 100kohm	R	403		1/10W 10kohm	R		!	1/10W 10kohm
R	229		1/10W 10kohm	R			1/10W 68kohm	R		1	1/10W 10kohm
R	230		1/10W 10kohm	R	406		1/10W 150kohm	1		l	
R	231	1	1/10W 10kohm	R			1/10W 120kohm	R			1/4WS 910ohm
R	232	l .	1/10W 10kohm	R	411	i e	1/10W 470ohm	A		i	1/4WS 910ohm
R	233	l .	1/4WS 100kohm	R	413		1/10W 10kohm	R	525	ł	1/4WS 1kohm
R	234	ì	1/4WS 100kohm	R	414	l .	1/10W 10kohm	R	526	ľ	1/10W 10kohm
R	235	117-1041-10	1/10W 100kohm	R	415	1	1/10W 3.3kohm	R	527		1/4WS 2.7kohm
R	236	117-1041-10	1/10W 100kohm	R	416		1/10W 3.3kohm	R	528		1/4WS 330ohm
R	237	111-2221-91	1/4WS 2.2kohm	R	417	117-2221-10	1/10W 2.2kohm	R	529	i .	1/10W 47kohm
R	301	117-1831-10	1/10W 18kohm	R	418	117-3331-10	1/10W 33kohm	R		1	1/10W 150kohm
R	302	117-2221-10	1/10W 2.2kohm	R	419	117-2221-10	1/10W 2.2kohm	R	531	l	1/10W 100kohm
R	303	117-4731-10	1/10W 47kohm	R	423	117-1031-10	1/10W 10kohm	R		Į.	1/10W 39kohm
R	304	117-1031-10	1/10W 10kohm	R	424	117-1031-10	1/10W 10kohm	R	533		1/4WS 10ohm
R	305	117-1031-10	1/10W 10kohm	R	425	117-1021-10	1/10W 1kohm	R	534	ì	1/4WS 10ohm
R	306	117-4731-10	1/10W 47kohm	R	426	117-1021-10	1/10W 1kohm	R	535	ŧ	1/10W 1kohm
R	307	117-6821-10	1/10W 6.8kohm	R	427	117-6821-10	1/10W 6.8kohm	R	536		1/4WS 10kohm
R	308	117-1031-10	1/10W 10kohm	R	428	117-1021-10	1/10W 1kohm	R	537	1	1/10W 1kohm
R	309	117-4721-10	1/10W 4.7kohm	R	429	117-1021-10	1/10W 1kohm	R	538	3	1/10W 10kohm
R	310	117-2221-10	1/10W 2.2kohm	R	430	111-5611-81	1/2WS 560ohm	R		1	1/4WS 10kohm
R	311	117-1021-10	1/10W 1kohm	R	431	117-4721-10	1/10W 4.7kohm	R	540	1	1/10W 1kohm
R	312	117-1021-10	1/10W 1kohm	R	432	117-2712-10	1/10W 270ohm	R	541	117-1031-10	1/10W 10kohm
R	313	117-1021-10	1/10W 1kohm	R	433	111-2221-91	1/4WS 2.2kohm	R	542	111-5611-91	1/4WS 560ohm
R	314	117-2221-10	1/10W 2.2kohm	R	434	117-2221-10	1/10W 2.2kohm	R	544	117-3321-10	1/10W 3.3kohm
R	315	117-4721-10	1/10W 4.7kohm	R	435	117-2221-10	1/10W 2.2kohm	R	600	117-1041-10	1/10W 100kohm
R	316	117-1031-10	1/10W 10kohm	R	436	117-2221-10	1/10W 2.2kohm	SUI	P 101	060-0122-10	DSP-201M-S00B
R	317	117-6821-10	1/10W 6.8kohm	R	437	117-4721-10	1/10W 4.7kohm	VR	349	012-3808-06	10kohm
R	318	117-1021-10	1/10W 1kohm	R	438	117-1021-10	1/10W 1kohm	VR	350	012-3808-06	10kohm
R	319	117-1021-10	1/10W 1kohm	R	443	117-5651-10	1/10W 5.6Mohm	VR	439	012-3808-11	220kohm
R	320	117-1021-10	1/10W 1kohm	R	444	117-1021-10	1/10W 1kohm	VR	440	012-3808-06	10kohm
R	321	117-1021-10	1/10W 1kohm	R	445	117-1021-10	1/10W 1kohm	VR	441	012-3808-11	220kohm
R	322	117-6821-10	1/10W 6.8kohm	R	446	117-1021-10	1/10W 1kohm	x	401	061-3013-00	4.33MHz
R	323	117-6821-10	1/10W 6.8kohm	R	501	117-3331-10	1/10W 33kohm	x	402	061-1066-00	7.2MHz
R	324	117-6821-10	1/10W 6.8kohm	R	502	117-3321-10	1/10W 3.3kohm	X	901	060-0130-50	

## ©SW PWB (Escutcheon)

RE	F No.	PART No.	DESSCRIPTION	П
С	1	043-1601-10	16V0.1uF	F
С	2	043-1601-10	16V0.1uF	F
D	1	001-0593-01	CL-155-Y/PG-D	F
D	2	001-0593-01	CL-155-Y/PG-D	F
D ·	3	001-0593-01	CL-155-Y/PG-D	F
D	4	001-0644-00	MA113	F
D	5	001-0644-00	MA113	F
D	7	001-0525-00	IMN10	F
D	8	001-0525-00	IMN10	F
IC	1	051-6001-01	uPD16431AGC-7ET	F

R	EF No.	PART No.	DESSCRIPTION
R	1	117-1031-10	1/10W 10kohm
R	2	117-1041-10	1/10W 100kohm
R	3	117-1031-10	1/10W 10kohm
R	10	117-3311-10	1/10W 330ohm
R	11	117-3311-10	1/10W 330ohm
R	12	117-2711-10	1/10W 270ohm
R	13	117-2711-10	1/10W 270ohm
R	14	117-2711-10	1/10W 270ohm
R	15	117-2711-10	1/10W 270ohm
R	16	117-3311-10	1/10W 330ohm

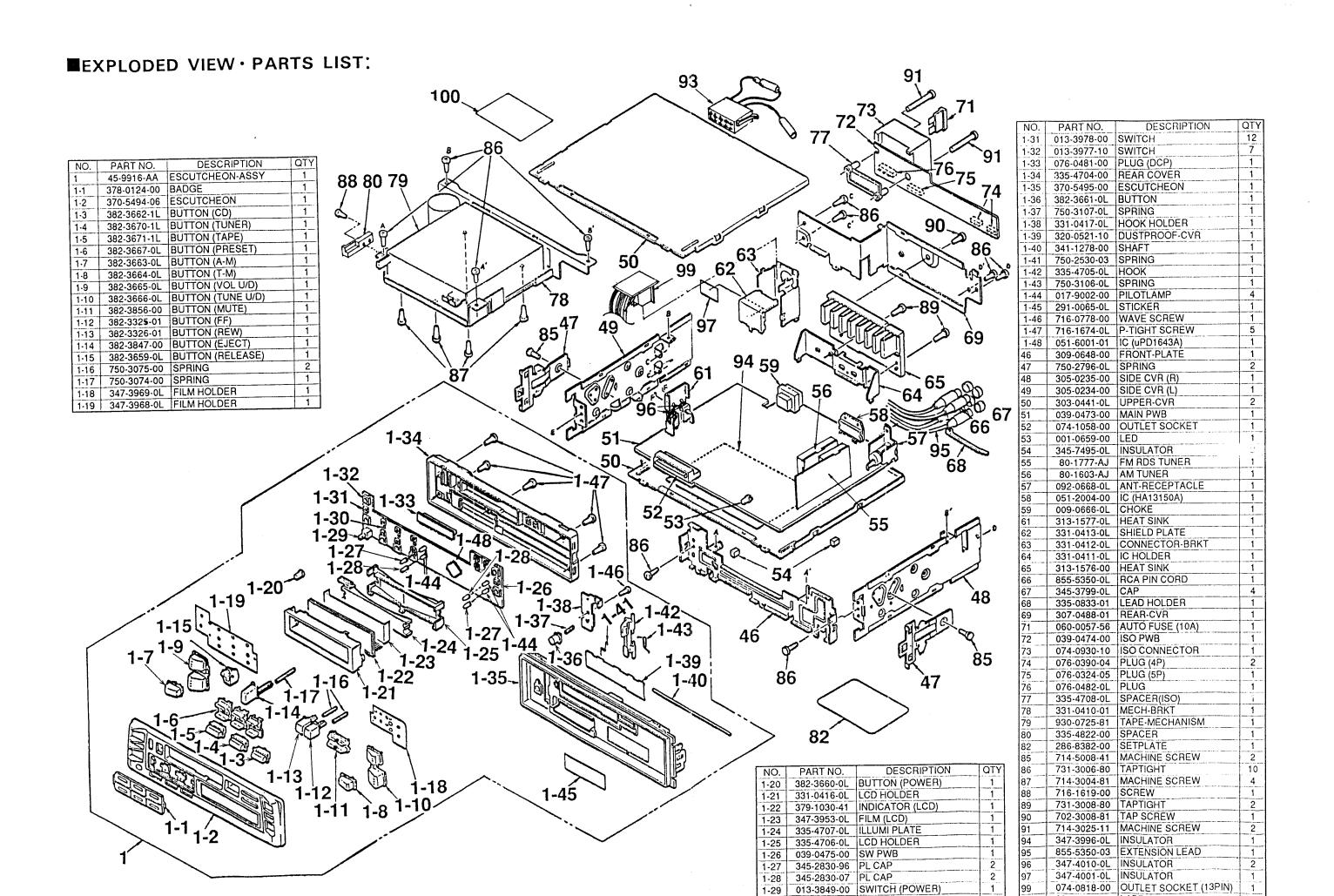
	BEI	= No.	PART No.	DESSCRIPTION
	1111	140.	1 /111 110.	DEGOOTHI HOIV
i	R	17	117-3311-10	1/10W 330ohm
	R	20	117-3311-10	1/10W 330ohm
	R	21	117-3311-10	1/10W 330ohm
	R	22	117-2711-10	1/10W 270ohm
ļ	R	23	117-2711-10	1/10W 270ohm
	R	24	117-2711-10	1/10W 270ohm
	R	25	117-2711-10	1/10W 270ohm
	R	26	117-3311-10	1/10W 330ohm
	R	27	117-3311-10	1/10W 330ohm

#### **OISO PWB**

REF No.		PART No.	DESSCRIPTION
С	363	183-1053-62	50V1uF
C	364	183-1053-62	50V1uF
C	365	183-1053-62	50V1uF
C	366	183-1053-62	50V1uF
D	112	001-0188-01	1S1885A

R	EF No.	PART No.	DESSCRIPTION
F	101	060-0057-06	10A
R	339	117-5611-10	1/10W 560ohm
R	340	117-5611-10	1/10W 560ohm
R	341	117-5611-10	1/10W 560ohm
R	342	117-5611-10	1/10W 560ohm

REF No.		PART No.	DESSCRIPTION					
R			1/10W 2.7kohm					
R	344	117-2721-10	1/10W 2.7kohm					
R R			1/10W 2.7kohm					
R	346	117-2721-10	1/10W 2.7kohm					

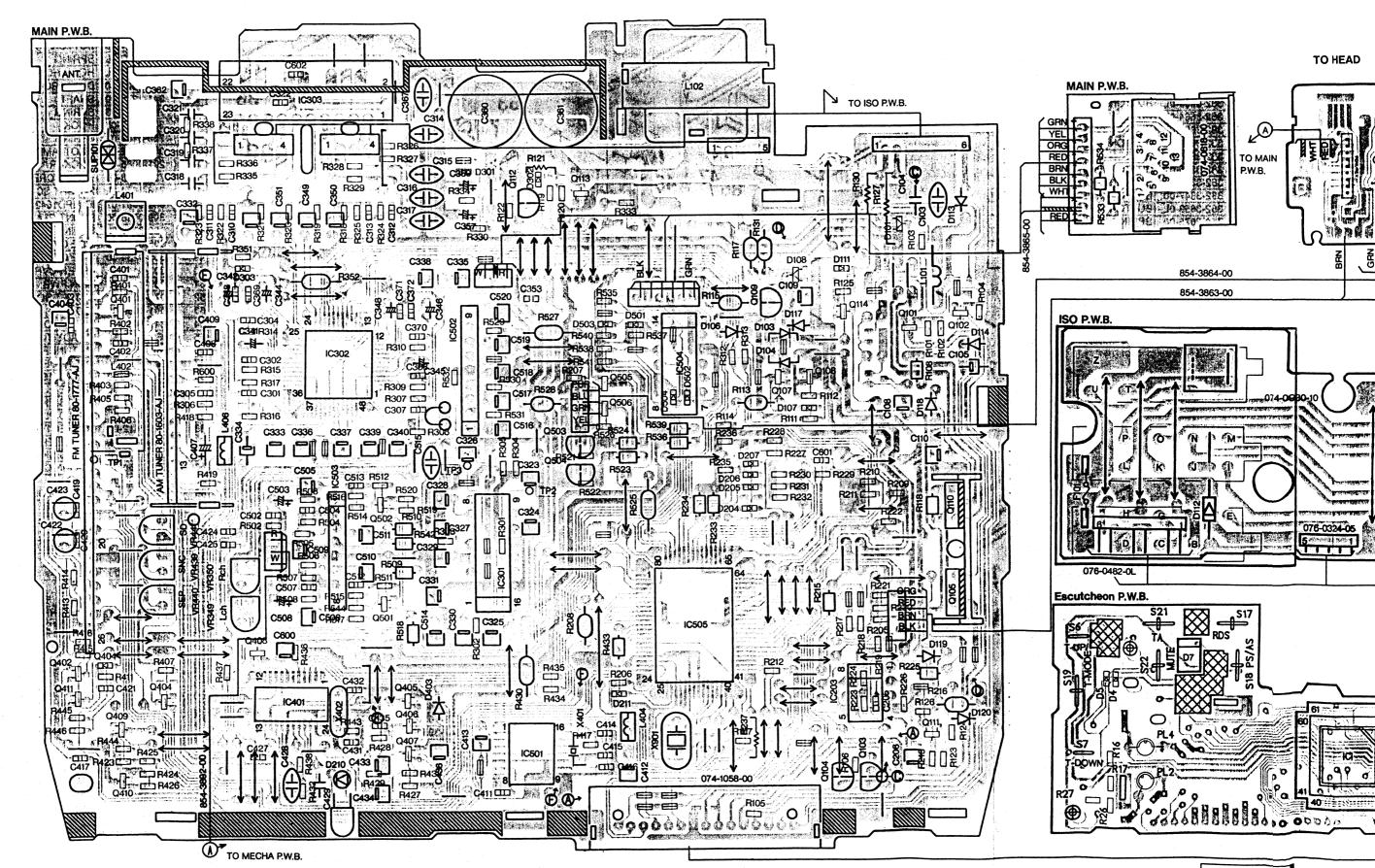


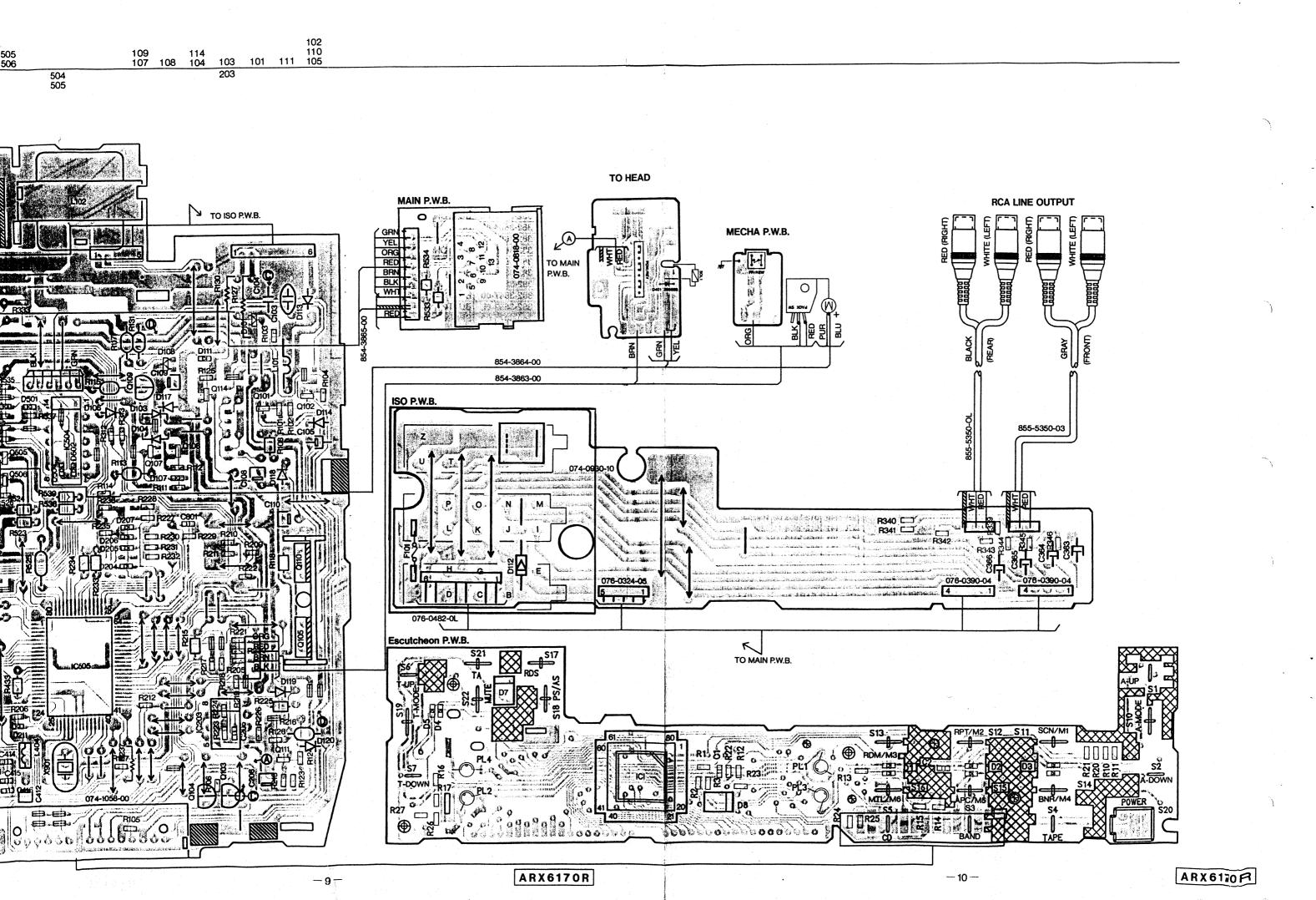
1-30 001-0593-01 LED

100 290-6328-00 LABEL

#### **■ PRINTED WIRING BOARD:**

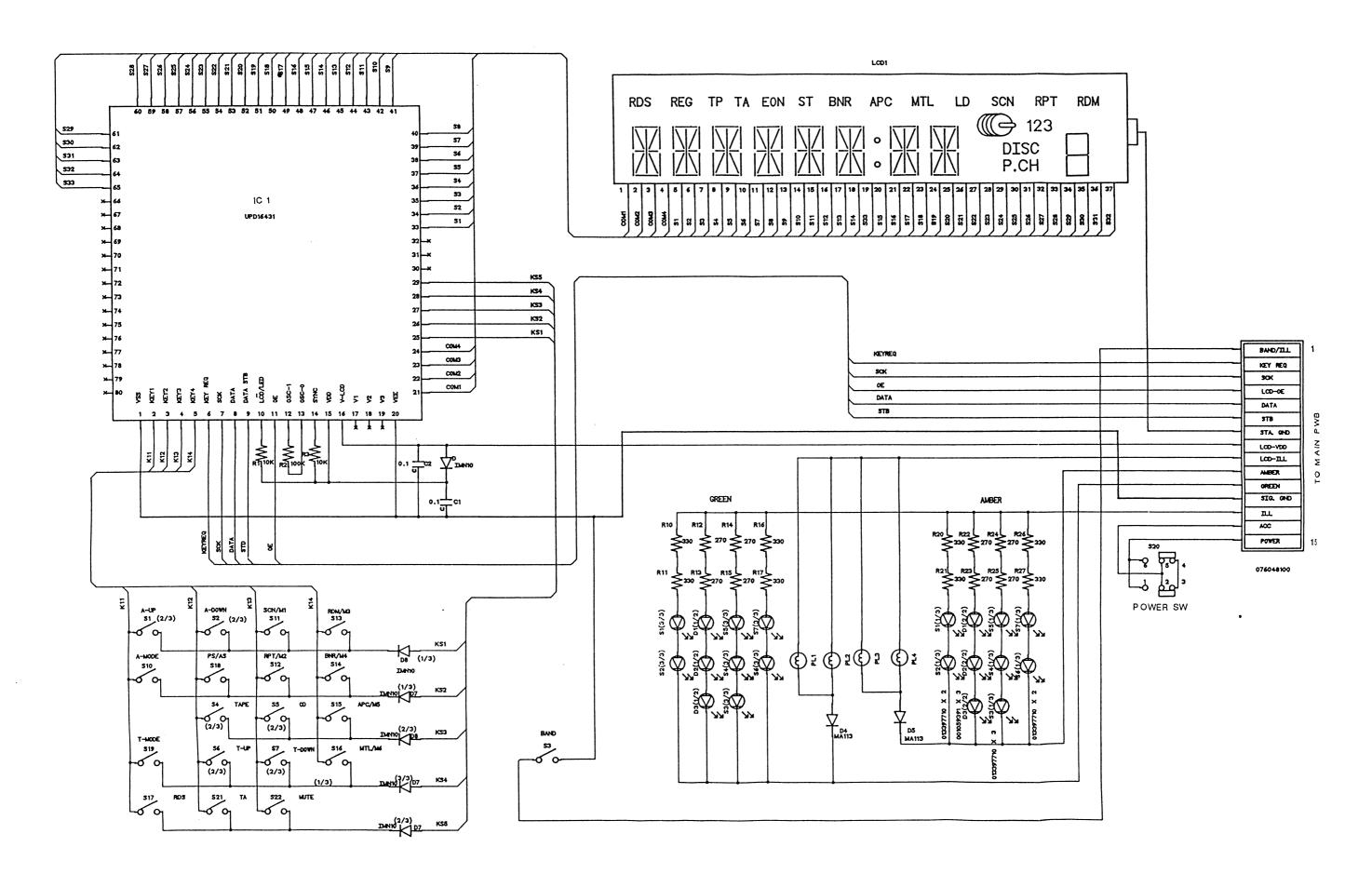
Q	402 411	401 409 410	408		502	405 406 407	502 301	112	113 503 505 504 506		109 107	108	114 104	103	101	111	102 110 105
IC			30 40	302 1 503				501		504 505				203			



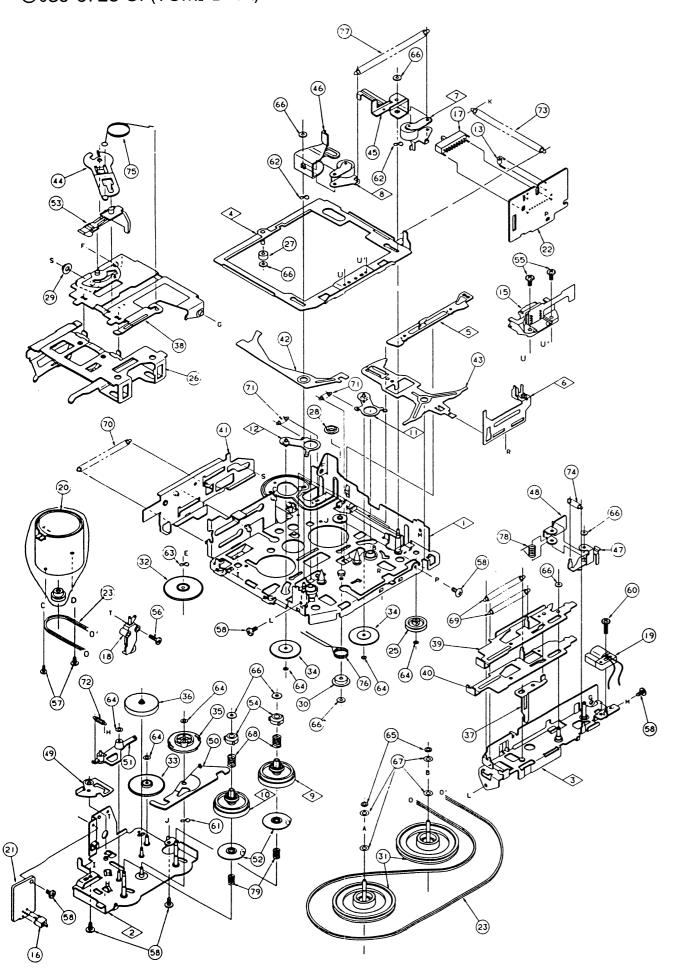


## **■CIRCUIT DIAGRAM: 1/2**

**©Escutcheon PWB** 



# ■EXPLODED VIEW · PARTS LIST: Tape mecha · section ⊚930-0725-81 (TOM₂-DMA)



REF NO.	PART NO.	DESCRIPTION	QTY	REF NO.	PART NO.	DESCRIPTION	QTY
1	960-4180-05		1	41	630-2498-10	EJECT LEVER-C	1
2		BOTTOM ASSY	1	42	630-2499-01	CHANGE LEVER	1
3		FRAME ASSY	1	43	630-2501-02	CHANGE PLATE	1.
4		HEAD ASSY-AZ	1	44	<u> </u>	SWING ARM	1
5		FF / REW -P-ASSY	1	45		FF / REW LINK	1
6		HEAD SW ASSY	1	46	630-2506-04	RELEASE LINK	1
7	960-4188-03	ROLLER ASSY-F	1	47	630-2507-04	LOCK LINK	1
8		ROLLER ASSY-R	1	48		KICK LINK	1
9		REEL ASSY-F	1	49	630-2529-01	MUTE PLATE	1
10	960-4191-07	REEL ASSY-R	1	50	631-1958-05	CHECK LINK	1
11	960-4192-02	IDLER ASSY-F	1	51	631-1959-01	CHANGE LINK	1
12	960-4193-02	IDLER ASSY-R	1	52	631-1961-03	CHECK PLATE	2
13	001-0466-00	DIODE (S5688B)	1	53	631-1963-04	PACK STOPPER	1
15	011-0324-00	HEAD	1	54	631-1967-00	SLIDE BUSH	2
16	013-3906-00	SWITCH	1	55	714-2005-81	MACHINE SCREW	2
17	013-3922-00	SWITCH (SLIDE)	1	56	714-2008-81	MACHINE SCREW	1
18	013-3924-00	SWITCH	1	57	716-0484-02	SCREW	2
19	015-0246-02	PLUNGER	1	58	716-1471-00	S-TIGHT 2-3	6
20	SMA-141-100	MOTOR-ASSY	1	60	716-1608-00	S-TIGHT 2-8	1
21	099-9126-00	P.W.B.	1	61	745-0752-00	PLATE SPRING	1
22	099-9669-00	P.W.B.	1	62	745-0756-00	SPRING WASHER	2
23	602-0115-00	BELT	1	63	746-0712-03	WASHER	1
25	604-0042-01	TENSION PULLEY	1	64	746-0724-00	WASHER	6
26	606-0100-05	PACK GUIDE	1	65	746-0762-00	WASHER	2
27	610-0333-01	HEAD POLLER A	1	66	746-0768-00	WASHER	8
28	610-0334-01	HEAD ROLLER B	1	67	746-0839-00	CAPSTAN WASHER	4
29	610-0335-02	EJECT ROLLER	1	68	750-2564-01	SLIDE SPRING	2
30	610-0336-01	SP ROLLER	1	69	750-2904-02	FF / REW-SPRING	2
31	611-0094-00	FLYWHEEL	2	70	750-2905-02	EJECT SPRING	1
32	613-0272-10	GEAR A	1	71	750-2906-00	IDLER SPRING	2
33	613-0273-02	GEAR B	1	72	750-2907-03	CHANGE-L-SPRING	1
34	613-0274-02	IDLER GEAR	2	73	750-2908-02	HEAD SPRING	1
35	613-0275-03	CHANGE GEAR	1	74	750-2909-04	LOCK SPRING	1
36	613-0277-02	CHECK GEAR	1	75	750-2910-03	SLOT SPRING	1
37	630-2488-02	SELECT PLATE	1	76	750-2911-01	HOLDING SPRING	1
38	630-2494-07	GUIDE ARM	1	77	750-2912-01	PINCH SPRING	1
39	630-2715-00	FF-LEVER-DCP	1	78	750-2913-01	KICK SPRING	1
40	630-2716-00	REW-LEVER-DCP	1	79	750-2919-03	CHECK SPRING-R	2

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